

U.S. Bioethanol

**Made in America. For America.
For the World.**

An Essential American Industry

Bioethanol, derived primarily from U.S. corn, is a high-octane, low-carbon renewable fuel. It supports American farmers and rural development, reduces tailpipe emissions, and enhances American energy independence. As countries seek carbon-negative pathways for their transportation sectors, U.S. bioethanol presents an affordable, available, and scalable solution.



Contributing Strategic Value to American Energy Security

Bioethanol strengthens U.S. energy independence and supports domestic fuel resilience. Ethanol blending reduces reliance on imported oil, enhances fuel supply stability, and lowers retail gasoline prices.

Saves American consumers an estimated \$18 billion per year.



Ethanol blends reduce oil imports and enhance fuel supply resilience



E10–E15 cuts prices by **15–30 cents/gal**, supports domestic production



Bioethanol = Reliable, domestic, renewable fuel

Global Reach

Over 60 countries now have ethanol blending mandates, as global consumption continues to expand from 29 billion gallons (2023). U.S. Grains & BioProducts Council promotes ethanol in more than 20 markets, and its efforts have enabled E10/E20 mandates, tax reforms, and clean cooking initiatives. With technical assistance, policy engagement, and commercial support, the U.S. Grains & BioProducts Council helps partner countries realize the full value of bioethanol to achieve these national goals.



- **~1.9B gallons** exported in 2023/24
- **Top Markets:** Canada, European Union, India, Japan, South Korea, United Kingdom

Investing in Ethanol: America's Advantage

The United States leads the world in bioethanol production, with almost 200 plants **producing over 18.3 billion gallons annually**. This output supports more than 310,000 U.S. jobs, contributes nearly \$53 billion to the GDP, \$28.3 billion for household incomes, and generates over \$10.3 billion in tax revenues, and drives demand for over 5 billion bushels of corn annually. In 2024, the U.S. exported almost 1.9 billion gallons* of bioethanol, **bringing in approximately \$4.3 billion in export revenues**.

*includes ETBE exports to Japan



U.S. Bioethanol: Powering American Prosperity and Global Decarbonization

Environmental and Health Benefits

Blending ethanol into gasoline displaces toxic hydrocarbons like benzene and MTBE. The result is cleaner air, lower tailpipe emissions, and reduced particulate matter. According to the U.S. Department of Energy, corn ethanol's carbon intensity is 44-52% lower than gasoline, and U.S. ethanol has eliminated over 500 million metric tons of GHG emissions since 2005. Ethanol supports urban air quality, rural economic development and has multiple end uses across different industries.



Rural and Industrial Economy

U.S. bioethanol supports rural communities through job creation, higher corn prices, and infrastructure investment. Co-products like DDGS and corn oil provide value-added revenue streams. Tangentially, biogenic CO₂ used in food and beverage industries provides a viable carbon negative alternative to fossil-based CO₂ sources. Bioethanol also contributes to UN SDGs on clean energy, economic growth, climate action, and health.



U.S. bioethanol is available, affordable, clean, and compatible. As global carbon goals tighten, U.S. bioethanol offers a proven solution to drive economic growth, strengthen energy security, and deliver real climate benefits at scale.

Ethanol In Aviation Fuel (SAF)

While ethanol supports the Trump administration's executive order on Unleashing American Energy and CORSIA compliance and plays a key role in road transportation, it's also emerging as a feedstock for **Aviation Fuel (SAF)** and other industrial applications. The U.S. Grains Council and partners are advancing **Alcohol-to-Jet (AtJ)** pathways to position ethanol as a scalable and lower-cost SAF solution. As global airlines and governments are setting mandates for SAF, bioethanol is ready to meet them.



Clean energy. Strong economy. Global reach.